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U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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## UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

| Attorney Docket No.    | ACE-00101.P.1.1-US                  |
|------------------------|-------------------------------------|
| First Inventor         | XU, Xiao                            |
| Title                  | IMPEDENCE BASED DEVICES AND METHDOS |
| Eynress Mail I abel No | EL 892181674 US                     |

|   | <del> </del>  |   | <del></del>            |  |  |                                      |  |
|---|---|---|------------------------|--|--|--------------------------------------|--|
| See MPEP (  |   | ION ELEMENTS ming utility patent application contents.  | ADDRES                 | SS TO: Commiss P.O. Box  | Patent Application<br>lioner for Patents<br>1450<br>la VA 22313-1450                   | n                                    |  |
| (Submit 2.  Applic See 3.  Specif (preferr - Descripe - Cross - State - Refer or a c - Backg - Brief - Detail - Claim | an original and a ant claims small 7 CFR 1.27. ication red arrangement seriptive title of the in selection red arrangement seriptive title of the in selection selection red arrangement Regarding Ference to sequence computer program I ground of the Inversummary of the Inversignment of the Indeed Description of the Idea Description | [Total Pages 144 ] et forth below) vention ated Applications ad sponsored R & D listing, a table, isting appendix ution vention Drawings (if filed) | 8. Nucle (if app a. b. | ii. Paper  Statements verifyin  CCOMPANYING A  | endix) Sequence Subrese Form (CRF) ence Listing on: CD-R (2 copies); g identity of abo | mission or DARTS  or DARTS  or DARTS |  |
|   | •   | 113) [Total Sheets  | 9. 🔲                   | Assignment Papers (co<br>37 CFR 3.73(b) Statem<br>(when there is an assig  | ent P<br>nee) A  | ower of<br>attorney                  |  |
| 5. Oath or Declaration [Total Sheets4] a.  Newly executed (original or copy)  |   | 11 English Translation Document (if applicable)  12 Information Disclosure Copies of IDS  Statement (IDS)/PTO-1449 Citations                        |                        |  |  |                                      |  |
|   |   | pplication (37 CFR 1.63(d))<br>visional with Box 18 completed)  | 13. 🗹<br>14. 🔲         | Preliminary Amendmen<br>Return Receipt Postcar   | t<br>d (MPEP 503)  | nauoris<br>n                         |  |
| 6.  | name in the prior a<br>1.63(d)(2) and 1.3<br>lication Data She  | attached deleting inventor(s) application, see 37 CFR 3(b). eet. See 37 CFR 1.76  | 15.                    | (Should be specifically Certified Copy of Priorit (if foreign priority is clair. Nonpublication Reques (b)(2)(B)(i). Applicant mor its equivalent. Other: Check for 673.00 | y Document(s)<br>med)<br>It under 35 U.S.C<br>lust attach form<br>Q. Cover letter      | PTO/SB/35                            |  |
|   |   | ATION, check appropriate box, and su<br>or in an Application Data Sheet under   |                        |  | nd in the first sei  | ntence of the                        |  |
| Prior application i<br>For CONTINUAT<br>5b, is considered   | TON OF DIVISION d a part of the dis   | Examiner  AL APPS only; The entire disclosure of t closure of the accompanying continuation and upon when a portion has been inadve                 | on or divisional       | Art Unit:ation, from which an oath<br>I application and is hereby  | /incorporated by   | supplied under Box                   |  |
|   | -   | 19. CORRESPO  | NDENCE AD              | DDRESS   |  |                                      |  |
| Custon  | ner Number:   | 24232   |                        | OR Corre   | espondence add   | ress below                           |  |
| Name  | David R Presto  | n ·   |                        |  |  |                                      |  |
| Address   |   | n and Associates, A.P.C.  |                        |  |  |                                      |  |
| City  | San Diego   | ff Drive, Suite 205   | State CA               |  | Zip Code   | 92130                                |  |
| Country   | United States   | America   | <u> </u>               | 58-724-0375  | <del></del>  | 858-724-0384                         |  |
| Name (Print/Type)   David R/Preston   Registration No. (Attorney/Agent)   38,710                                      |   |   |                        |  |  |                                      |  |
| Signature   |   | MA  |                        |  | Date //  | 10.200 3                             |  |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

## David R. Preston & Associates, A.P.C.

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Mo Savari<sup>†</sup> savari@drpna.com

†Of Counsel \*A Professional Corporation

## **VIA EXPRESS MAIL**

**Mail Stop Patent Application** 

"Express Mail" Mailing Label Number: EL 892181674 US

Date of Deposit: November 10, 2003

Commissioner for Patents Alexandria, VA 22313-1450

Re:

**Utility Patent Application** 

Entitled:

IMPEDENCE BASED DEVICES AND METHODS OF USE IN ASSAYS

Appl. No.:

To be determined

Filed:

Herewith

Inventor:

Xiao XU and Xiaobo WANG

Our Ref.:

ACE-00101.P.1.1-US

Sir:

The following documents are forwarded herewith for appropriate action by the United States Patent and Trademark Office:

- 1. Utility Patent Application Transmittal (in duplicate);
- 2. Fee Transmittal (in duplicate);
- 3. Declaration for Utility Patent Application;
- 4. Complete U.S. Patent Application entitled:

## IMPEDENCE BASED DEVICES AND METHODS OF USE IN ASSAYS

and naming as inventors:

Xiao XU, Xiaobo WANG

the utility application comprising:

- i. Total pages of application: [202];
- ii. Pages of Disclosure: [101];
- iii. Pages of Figures: [57];
- iv. Pages of Title Page: [1];
- v. Pages of Abstract: [1];
- vi. Pages of Claims: [42]
- 5. Preliminary Amendment
- 6. One Return Post Card; and
- 7. Check No. 2623 in the amount of \$ 673.00 to cover the application fee.

It is respectfully requested that the attached postcard be stamped with the filing date and unofficial application number and returned as soon as possible.

Please apply any charges not covered, or any credits, to <u>Deposit Account 501321</u> in the name of David R. Preston & Associates A.P.C. having <u>Customer No.: 24232</u>.

The following attorney is the attorney of record for prosecuting this application and transacting all business in the USPTO connected therewith:

David R. Preston, Esquire Registration No. 38,710

Please send all correspondence and direct all telephone calls to:

David R. Preston
David R. Preston & Associates A.P.C.
12625 High Bluff Drive; Suite 205
San Diego, California 92130
858.724.0375

Respectfully submitted,

DAVID R. PRESTON & ASSOCIATES A.P.C.

Attorney for Applicant Registration No. 38,710

David R. Preston & Associates, A.P.C. **DRPNA®** 

www.drpna.com phone: 858.724.0375 facsimile: 858.724.0384

SUBTOTAL (3) (\$) 0.00

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|--|--------------|--|--------|-------------|---|------------------|--|
| FEE TRANSMITTA   |              | Complete if Known  |        |             |   |                  |  |
| I EE IIAIOMIIIA  | <b>-</b>     | Application Number   |        | Number      | To be determined  |                  |  |
| for FY 2003  | ļ            | Filing Date  |        |             | Herewith  |                  |  |
| Effective 01/01/2003. Patent fees are subject to annual revision.  | l            | First Named Inventor   |        | Invento     | or XU, Xiao   |                  |  |
|  |              | Examiner Name  |        | ame         | To be determined  | To be determined |  |
| Applicant claims small entity status. See 37 CFR 1.27  |              | Art Unit   |        |             | To be determined  | To be determined |  |
| TOTAL AMOUNT OF PAYMENT (\$) 673.00  |              | Attorney Docket No. ACE-00101.P.1.1-US   |        |             |   |                  |  |
| METHOD OF PAYMENT (check all that apply)   |              | FEE CALCULATION (continued)  |        |             |   |                  |  |
| Check Credit card Money Other None   |              | 3. ADDITIONAL FEES   |        |             |   |                  |  |
| Deposit Account:   |              | Entity   |        |             |   |                  |  |
| Deposit 504204   | Fee<br>Code  | Fee<br>(\$)  | Fee I  | Fee<br>(\$) | Fee Description   | Fee Paid         |  |
| Account Number 501321  | 1051         | 130  | 2051   | 65 St       | urcharge - late filing fee or oath  |                  |  |
| Deposit Account David R Preston  | 1052         | 50   | 2052   |             | urcharge - late provisional filing fee or                                       |                  |  |
| Name   |              | 130  | 1053   |             | on-English specification  |                  |  |
| The Commissioner is authorized to: (check all that apply)  Charge fee(s) indicated below  Credit any overpayments  | 1812         | 2,520  | 1812 2 | 2,520 Fc    | or filing a request for ex parte reexamination                                  |                  |  |
| Charge any additional fee(s) during the pendency of this application   |              | 920*   | 1804   |             | equesting publication of SIR prior to<br>xaminer action                         |                  |  |
| Charge fee(s) indicated below, except for the filing fee   |              | 1,840*   | 1805 1 |             | Requesting publication of SIR after   |                  |  |
| to the above-identified deposit account.   |              |  |        | _           | xaminer action  |                  |  |
| FEE CALCULATION  |              | 110  | 2251   | _           | Extension for reply within first month  Extension for reply within second month |                  |  |
| 1. BASIC FILING FEE  | 1252<br>1253 |  | 2252   |             | Extension for reply within third month  |                  |  |
| Large Entity Small Entity Fee Fee Fee Fee Fee Description Fee Paid   |              | 1,450  | 2254   |             | Extension for reply within fourth month   |                  |  |
| Code (\$) Code (\$)  |              | 1,970  | 2255   | _           | Extension for reply within fifth month  |                  |  |
| 1001 750 2001 375 Utility filing fee 385.00  | 1401         |  | 2401   |             |   |                  |  |
| 1002 330 2002 165 Design filing fee  | 1401         |  | 2401   |             | Notice of Appeal Filing a brief in support of an appeal                         |                  |  |
| 1003 520 2003 260 Plant filing fee<br>1004 750 2004 375 Reissue filing fee   | 1402         |  | 2402   |             | Request for oral hearing  |                  |  |
| 1004 750 2004 375 Reissue filing fee<br>1005 160 2005 80 Provisional filing fee  |              | 1,510  |        |             | Petition to institute a public use proceeding                                   |                  |  |
| , and the second | 1452         | -  | 2452   |             | Petition to revive - unavoidable  |                  |  |
| SUBTOTAL (1) (\$) 385.00   | 1453         | 1,300  | 2453   | 650 P       | Petition to revive - unintentional  |                  |  |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE  | 1501         | 1,300  | 2501   | 650 U       | Itility issue fee (or reissue)  |                  |  |
| Extra Claims below Fee Paid  | 1502         | 470  | 2502   | 235 D       | Design issue fee  |                  |  |
| Total Claims 52 -20** = 32 x 9 = 288   | 1503         | 630  | 2503   | 315 F       | Plant issue fee   |                  |  |
| Independent 2 - 3** = 0 X = -3**   | 1460         | 130  | 1460   | 130 F       | Petitions to the Commissioner   | ·                |  |
|  | 1807         | 50   | 1807   | 50 F        | Processing fee under 37 CFR 1.17(q)   |                  |  |
| Large Entity   Small Entity Fee Fee   Fee Fee Fee Description  | 1806         | 180  | 1806   |             | Submission of Information Disclosure Stmt                                       |                  |  |
| Code (\$) Code (\$)  | 8021         | 40   | 8021   | 40 R        | Recording each patent assignment per<br>roperty (times number of properties)    | [                |  |
| 1202 18 2202 9 Claims in excess of 20 1201 84 2201 42 Independent claims in excess of 3  | 1809         | 750  | 2809   | 375 F       | Filing a submission after final rejection                                       |                  |  |
| 1201 84 2201 42 Independent claims in excess of 3 1203 280 2203 140 Multiple dependent claim, if not paid  | 1810         | 750  | 2810   | -           | 37 CFR 1.129(a)) For each additional invention to be                            | <b></b>          |  |
| 1204 84 2204 42 ** Reissue independent claims  | 1010         | 730  | 2010   |             | examined (37 CFR 1.129(b))  |                  |  |
| over original patent   | 180          |  | 2801   |             | Request for Continued Examination (RCE)   |                  |  |
| 1205 18 2205 9 "Reissue claims in excess of 20 and over original patent  | 1802         | 900  | 1802   |             | Request for expedited examination of a design application                       |                  |  |

| **or number prev  | iously paid, if greater; For Reissues, see above | Reduced by basic Filling Fee Fald        | SUBTOTAL (3) ((\$) 0.00   |   |
|-------------------|--|--|---------------------------|---|
| SUBMITTED BY      |  |  | (Complete (if applicable) |   |
| Name (Print/Type) | Dayki K Preston                                  | Registration No. (Attorney/Agent) 38,710 | Telephone 858-724-0375    |   |
| Signature         | ( X ) X _  |  | Date Vov 10, 200          | 3 |

(\$) 288.00

SUBTOTAL (2)

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

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